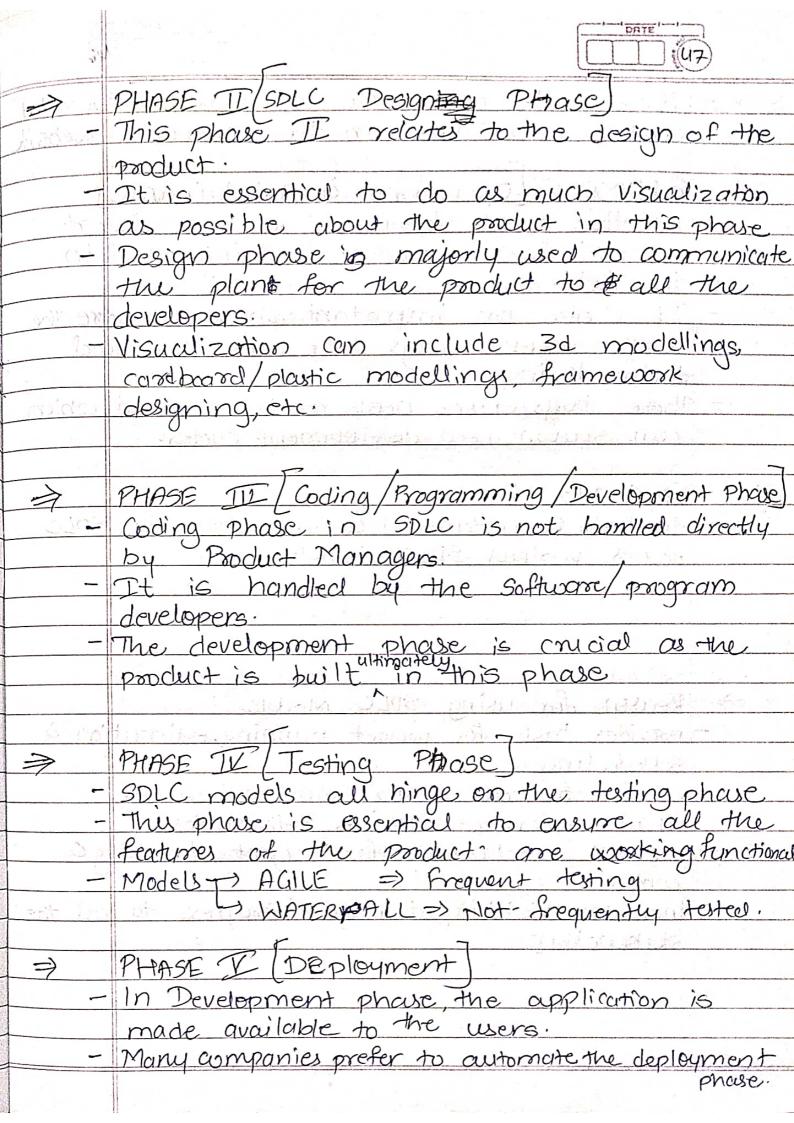
eic.	23/8/23 (UC)
	Software Development Life Cycle 23/8/23:(46)
11.1	Spic is a framework that describes the
April 1	activities performed at each stage of the
	activities performed at each stage of the software development project
-	that are used by the processer that are used by the processer
	& test high quality software by the processed
	that are used by the software industry.
-	
<u></u>	AIM Coltinois
	SDLC is a process used by software
	industry of design, atvector and resign
	high quality softworks.
\rightarrow	PHASES Singlates butgeting:
(i)	PHASES > includes budgeting. Planning & Requirement Gathering & Analysis
(2	Design of the Rocidmoup
(3)	Development
(4)	Testing
5	Implementation
6	Mainteinance
_ =>	PHASE I (Planning, Reg. Gathering & Analysis)
<u> </u>	Phase I defines the importance of system
<u>H</u>	development lifecycle (SDLC)
	Also called SDLC planning phase.
<u> </u>	Includes various processes like market research,
<u>X</u>	conduct constomer interviews, research to your
	competition & conduct arrivers, etc.
	The feedback that is gathered can be used to
	analyze product-market fit
	Phase I also defines what needs to be in the
ă	product and what doesn't needs to be in product





- It can be as simple as a payment portor and devonload link on the company's website => 6 PHASE 6 LOperations & Maintainousce - At this point, deployment aycle is almost complete a the product is being used in " the feld. - It is also an important phase, as here the wers discover bugs that were unnoticed during testing. These bugs/errors needs to be resolved, which cun spown new development cycles. SAC Models # - to help & understand & implement the SDLC phases, various SDLC models -> Reasons for using SDLC Models. - provides basis for project planning, estimation & schedulina. - provides framework for standard set of terminologies, activities & deliverables - provides mechanism for project tracking & control. - Increases visibility of project progress to all the stakeholders.



<i>></i>	Advantages of Scleeting appropriates SOLL Model
_	increased development speed.
_	increased product quality.
_	improved tracking & control
	- improved client relationship.
_	decreased product/project errors/bugs risks
	- decreased project management everhead.
	4 distribution of project work
	A CONTRACTOR OF THE CONTRACTOR
\Rightarrow	Common SDLC Models
_	Waterfall,
1	Spiral / Iterative
	Agole
	The state of the s
\Rightarrow	SDLC Woterfall Model
7	Analysis J
	Design J
	Development J
9-	- If any error on countred, Testing J
	you can't go back to the peployment -
	previous phase & will Maintainance
	need to go the starting/analysis phase.
	oldest & most well-known model.
T	- follows sequentical step-by-step process from vey.
1 .00	analysis to maintainance.
7.	- used majorly for manufacturing of physical produc
- 3	and the transport of the same
	The state of the s
	THE RESERVE OF THE PARTY OF THE
S. Car	



And the second second second second	
	Strengths of Splc Motorfall Model
	Eny & understand & use
_	maides shucture / homework to inexperienced
2	aly El.
-	Milestenes / Araks / Proces one well-understood
	Sets requirement stability
	Good for management system (Flom, Style, Trock)
-	while more efficient & well whoo quality is
	more important than cost or schedule:
[]	
	Medicareti
	all requirement must be fully eath specified
	Chipaly.
-	Deliverable Orestell for each phase one see
Allest Comments and the	considered foces - inhibits flexibility
_	on oire Else immession of mones.
	יום שינינים או אווין אוביר במשומים ביון בייב בייבור בייביר
i.e.	Softweene development -> iterations of phases
¥ -	Little opportunity for Obstamer to previous the
	sustem (until it may be too lote).
E.	
->	ON C. Spiral Atentive Model
	SDLC Spiral Atendine Model
2	(2) Rish Analysis
	Regularian - Rick moduching
	Granerica / Assistation oraclusis
4	Respect to the second
蓝	Customer () remove the
	Surrana (mr. 2)
	(3) Engineering

- It is a risk-driven (prioritizes risk) iterative

- Spiral model is also called risk model or

iterative model

- It will take 6 months to eyears to complete the

- Each iterative starts with small set of requirements and goes through decelerment phase (except installation & maintainance) for those set of requirements

-> After iterative/spiral model it is necessary to do

Requirements analysis

and specification

Design

Coding &

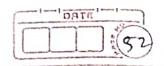
Unit toting

System testing

Maintanonic

- Therate on spiral model is followed until all major tisks are addressed and application is ready for the installation and maintainance phase (production)

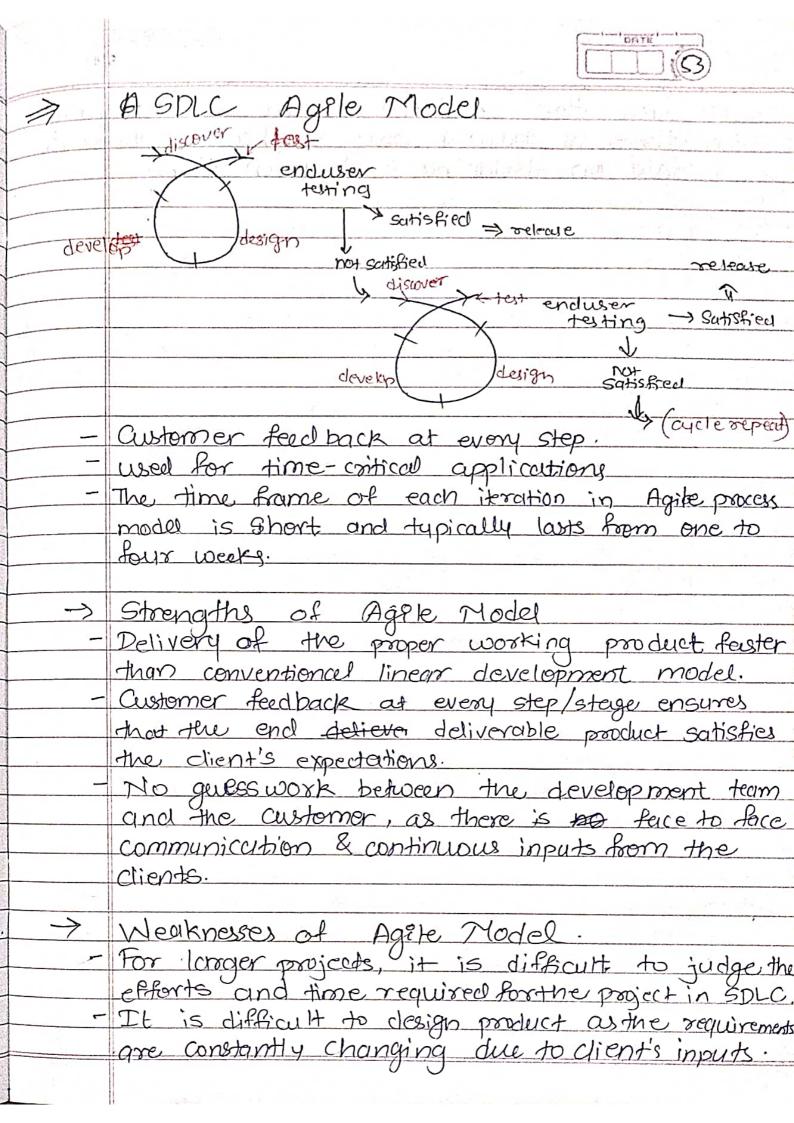
- Lay iteration is the Worlerfell process.

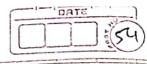


> Strengths of Spiral/ Horabive Mode Critical high-risk functions are developed & solved first, the design/paroduct has low chance of beind errored or defective Users can see/use products/system early because of rapid prototyping tools-- Users can be closely fied to all lifecycles steps to have early a frequent feedbacks. from users. > Weaknesses of Splc Spiral/Iterative Model - Time spent for evaluating risks is too large Reven for small or low-risk products/system 4 time consuming - Also time spent on planning, resetting objectives doing risk analysis & prototyping may be excossive - The model is complex - Risk assessment expertise is required.

Us increasing project cost/Expensive to anextent. > When to use spiral model? - when risk-evaluation is more important - for medium to whigh - risk projects.

- the product/system is to be built from scratch and isn't availablein the market. 4 requirements becomes unclear & comptex 4 users/developers one unsure of the project nec - creating a new product line.





Since the requirements are ever changing, there is hardly any emphasis, which is laid on designing & documentation.